

## 9. Veronika

**Program Name:** Veronika.java

**Input File:** veronika.dat

Creating letter patterns with a program is one of Veronika's favorite things to do. Lately she has been playing around with a layered pattern, where she takes any word and makes a "concentric square" with the letters, where the first letter of the word is the outside layer of the square, the second is the next layer, and so on until the last letter is in the middle of the square.

For example, with the word **UIL**, the square would look like this:

```
UUUUU
UIIIU
UILLU
UIIIU
UUUUU
```

or this example using the word **REGION**:

```
RRRRRRRRRRR
REEEEEEEEEER
REGGGGGGGER
REGIIIIIGER
REGIOOOIGER
REGIONOIGER
REGIOOOIGER
REGIIIIIGER
REGGGGGGGER
REEEEEEEEEER
RRRRRRRRRRR
```

**Input** - Several words, all in caps, each on one line, and each with a length of at least 2 and no more than 25.

**Output** - A concentric square for each word, as shown above, each output followed by a blank line.

**Sample data:**

```
UIL
REGION
```

**Sample Output:**

See above